



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/646,301
Source: OPIPE
Date Processed by STIC: 8/28/2003

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

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Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/646,301

DATE: 08/28/2003
TIME: 14:39:03

Input Set : A:\seqlist.txt
Output Set: N:\CRF4\08282003\J646301.raw

3 <110> APPLICANT: Altmann, Scott W
4 Wang, Luquan
5 Graziano, Michael
6 Murgolo, Nick
8 Davis, Harry
10 <120> TITLE OF INVENTION: NPC1L1 (NPC3) AND METHODS OF USE THEREOF
12 <130> FILE REFERENCE: JB01603-K1-US
W--> 13 <140> CURRENT APPLICATION NUMBER:
15 <141> CURRENT FILING DATE: 2003-08-22
17 <150> PRIOR APPLICATION NUMBER: 60/397,442
19 <151> PRIOR FILING DATE: 2002-07-19
21 <150> PRIOR APPLICATION NUMBER: 10/621,758
23 <151> PRIOR FILING DATE: 2003-07-17
W--> 24 <160> NUMBER OF SEQ ID: 50
26 <170> SOFTWARE: PatentIn version 3.1

ERRORED SEQUENCES

1795 <210> SEQ ID NO: 10 *see p.2*
 1796 <211> LENGTH: 3993
 1797 <212> TYPE: DNA
 1798 <213> ORGANISM: Rattus sp. *See p.5 for error explanation*
 1800 <400> SEQUENCE: 10
 E--> 1801 atggcgcggc cttgggttgg ntgggyttrn tggggnytth tnytwsnsgc ngnarggn 60
 E--> 1802 garytnata cnccnaarca ygargcnggn gnttgayacnt tytaygarga rtgyggnaar 120
 E--> 1803 aayccngary tnwsnggng nytnacnwsn ytnwsnaayg tnwsntgyyt nwsnaayacn 180
 E--> 1804 ccngcnmgnc aygtacnacngg ngarcayytn gcnnytntc armgnathtg yccnmgnyn 240
 E--> 1805 tayaayggnc cnaayacnac nttygcntgy tgywsnacna arcarytnyt nwsnytngar 300
 E--> 1806 wswnsnatgw snathacnaa rgcnytnytn acnmgntgyc cngcntgyws ngayaaytty 360
 E--> 1807 gtnwsnytnc aytgycayaa yacntgywsn ccngaycarw snytnattyat haaygtna 420
 E--> 1808 mgngtngtng armngggngc nggngarccn ccngcngtng tngcntayga rgcnattyat 480
 E--> 1809 carmgnwsnt tygcngaraa rgcnytngtng argnat hccngcngcn 540
 E--> 1810 gcnwsnytng cngtnggnws natgtgygggn gnttayggnw sngcnytnytg yaaygcncar 600
 E--> 1811 mgntggtyta ayttycargg ngayacnggn aayggnytng cnccnytnga yathacnity 660
 E--> 1812 cayytnytn arccnggnca rgcnytncn gayggnathc arccnytnaa yggnaarath 720
 E--> 1813 gcncntgya aygarwsnca rggngaygay wsngcngtnt gywsntgyca rgraytgygc 780
 E--> 1814 gcnwsntgyc cngtnathcc nccncngar gcnnytnmgnc cnwsnttta yatgggnmgn 840
 E--> 1815 atgccnggnt ggytngcnyt nathathath ttyacngcng tnttytnty nytnwsngcn 900
 E--> 1816 gtnytngtnm gnytnmgngt ngtnwsnaay mgnayaaara ayaargcnga rggncncar 960
 E--> 1817 gargcncna arytnccna yaarcayaar ytnwsnccnc ayacnathyt nggnmgntty 1020
 E--> 1818 ttycaraayt ggggnacnmg ngtngcnwsn tggccnytna cngtntyngc nytnwsntty 1080
 E--> 1819 athgtngtna thgcnnytngc ncenggnytn acnttyathg arytnacnac ngayccngtn 1140

pp 1-6
Does Not Comply
Corrected Diskette Needed

This row is a sample of errors throughout the sequence.

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Input Set : A:\seqlist.txt
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E--> 1820 garytntggw sngcnccnaa rwsncargcn mgnnaargara arwsnattyca ygaygarcay	1200
E--> 1821 tyyggncnt tyttymgnac naaycarath tyygtjacng cnmgnaaymg nwsnwsntay	1260
E--> 1822 aartaygayw snytnynty nggnwsnaar aayttypsng gnathytnws nytnayt	1320
E--> 1823 ytnytnayt tnytnayt ncargarmgn ytnmgnacayt tncartntg gwsnccngar	1380
E--> 1824 gcngrmna ayathwsnyt ncargayath tgytaygcnc cnytnaaycc ntayaayacn	1440
E--> 1825 wsnytnwsng aytgytgygt naaywsnyt ytnkartayt tycaraayaa ymgnacnytn	1500
E--> 1826 ytnatgytna cngcnaayca racnytnaay gncaracnw snytngtnga ytggaaargay	1560
E--> 1827 cayttyynt aytgygcnaa ygnccnytn acnattyarg aygnacnws nytngcnytn	1620
E--> 1828 wsntgyatgg cngaytaygg ngnccngtn tyyccntt yngcngtngg ngnntaycar	1680
E--> 1829 ggnacngayt aywsngargc ngargcnytn athathacnt tywsnytnaa yaaytayccn	1740
E--> 1830 gcngaygacy cnmgnatggc ncargcnaar ytnrggarg argcnattyt naargaratg	1800
E--> 1831 garwsnattyca armgnaayac nwsngayaar tycargtng cntywsgc ngarmgnwsn	1860
E--> 1832 ytnargayg arathaaymg nacnacnath cargayytn cngtnattygc ngtnwsntay	1920
E--> 1833 athathgtnt tyytnayat hwsnytnayt ytnrggnwsnt aywsnmgnlg ywsnmgnlg	1980
E--> 1834 gcngtngarw snaargcna nytnrggnlyt gnggngtnta thgtngtnty ngngcngtnt	2040
E--> 1835 ytnrgcna tggngtnta ywsntayytn gngtngcnw snwsnytngt nathathcar	2100 <i>Same</i>
E--> 1836 gtngtncnt tyytnayt ngcngtnggn gcnaygayaaya thtayt ygtntaygar	2160
E--> 1837 taycarmgny tnccnmgnat gcnaygngar carmgngarg cncayathgg nmgnacnytn	2220
E--> 1838 ggnwsngtng cnccnwsnat gytnytnayt wsnysnwsng argcnathtg ytttyytn	2280 <i>EMM</i>
E--> 1839 ggnccnytna cnccnatgco ngnctnmgn acnattygcny tnacnwsngg nytnayt	2340
E--> 1840 athytngayt tyytnaytca ratgacng tyytngcny tnytnayt ygnaywsnaar	2400
E--> 1841 mgncargarg cnwsnmgncc ngaytngnyt tgytgytayt snacnmgnaa rytnccnccn	2460
E--> 1842 ccnaargara argarggnyt nytnaytmgm tyytymgn arathaytgc nccnattytn	2520
E--> 1843 ytnaytmgnt tyathmgnc ngtngtnat ytnytnayt tnytnayt ygnaytgnay	2580
E--> 1844 ytnaytayt tgytgyaayat haaytnggn ytnaytgcnyt nccnaargay	2640
E--> 1845 wsntaytayt thgaytayt ytnaytayt aaytgnayt tngargtngg nccnccngtnt	2700
E--> 1846 taytaytgnayt cnacnwsngg ntytayt ywsnwsngarg cnggnatgaa ygnacnayt	2760
E--> 1847 wsnsngcng gntgyaarws ntytayt ygnaytgnayt thcartaygc nwsngartt	2820
E--> 1848 ccngaycarw sntaytngc nathgcnayt wsnwsntgg tngaytayt yathgaytgg	2880
E--> 1849 ytnacnccnw snwsnwsntg ytgymgnayt taytaytgnayt gnccnayaa rgaygarty	2940
E--> 1850 tgyccnwsna cngayacnws ntytayt ytnaytayt gyatgaaaymg nacnaytnggn	3000
E--> 1851 ccngtnmgncc cnacngcngc rcarttgcay aartaytgn tnytayt ygnaytgnay	3060
E--> 1852 ccnaayathm gntgyccnaa rggnggnayt gngcnaytgn gnacnwsngt naaytgnwsn	3120
E--> 1853 wsngayggnc argtnaytgnayt gnccnayaa rgaygarty	3180
E--> 1854 cngaytgnayt gnccnaytgnayt gnccnaytgnayt gnccnayaa rgaygarty	3240
E--> 1855 ytnaytgnayt tnccnngnac ngaytgnayt tgytgnayt tnytayt ygnaytgnay	3300
E--> 1856 gtnttayt ytnaytgnayt nacnaytgn tngaytgnayt thtayt ygnaytgnay	3360
E--> 1857 tgytgnayt gnccnaytgnayt ntgytgnayt ytnaytgnayt tngaytgnayt ygnaytgnay	3420
E--> 1858 ytnaytgnayt tnwsnayt hatgathayt gngaytgnayt thgnytgnayt gngtnggn	3480
E--> 1859 ggnaytgnayt ayaaytgnayt nwsnaytgnayt aaytgnaytgnayt cngtnggnayt gngtnggn	3540
E--> 1860 garttgnaytgnayt gnccnaytgnayt gnccnaytgnayt gnccnaytgnayt gnccnaytgnayt	3600
E--> 1861 mgngcnaarg aygnacnaytgnayt gnccnaytgnayt gnccnaytgnayt gnccnaytgnayt	3660
E--> 1862 aaytaytgnayt gnaytgnayt hytnggnayt gnccnaytgnayt gnccnaytgnayt gnccnaytgnayt	3720
E--> 1863 tgytgnaytgnayt aaytaytgnayt gnccnaytgnayt gnccnaytgnayt gnccnaytgnayt	3780
E--> 1864 gtngtnggnaytgnayt gnccnaytgnayt gnccnaytgnayt gnccnaytgnayt gnccnaytgnayt	3840
E--> 1865 gcnwsngcng cngtnggnaytgnayt gnccnaytgnayt gnccnaytgnayt gnccnaytgnayt	3900
E--> 1866 gcngaygacy aytgnaytgnayt ygnaytgnayt gnccnaytgnayt gnccnaytgnayt	3960
E--> 1867 mgnsnwsny tnccnaytgnayt gnccnaytgnayt gnccnaytgnayt gnccnaytgnayt	3993

2570 <210> SEQ ID NO: 13

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/646,301

DATE: 08/28/2003
TIME: 14:39:03

Input Set : A:\seqlist.txt
Output Set: N:\CRF4\08282003\J646301.raw

2571 <211> LENGTH: 3999	
2572 <212> TYPE: DNA	
2573 <213> ORGANISM: Mus sp.	
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E--> 2577 garytntaya cnccnacnca yaargcnggn ttytgyacnt tytaygarga rtgyggnaar	120
E--> 2578 aayccngary tnwsnggngg nytnacnwsn ytnwsnaaya thwsntgyyt nwsnaayacn	180
E--> 2579 ccngcnmgnc aygtacnacngg ngaycayytn gcnytnytn armgngntng yccnmgnyn	240
E--> 2580 tayaaygnc cnaaygayac ntaygcntgy tgywsnacna arcarytngt nwsnytngay	300
E--> 2581 wsnsnytnw snathacnaa rgcnytnytn acmngntgyc cngcntgyws ngaraayt	360
E--> 2582 gtnwsnathc aytgycayaa yacntgywsn ccngaycarw snytnattyat haaygtnacn	420
E--> 2583 mgngtngtnc armgngaycc ngnncarytn ccngcngtng tngcntayga rgcnattyat	480
E--> 2584 carmgnsnt tygcngaraa rgcnytnytn wsntgywsnm gngtnmgnat hccngcngcn	540
E--> 2585 gcnwsnytng cngtnggnws natgtgyggn gtntayggw sngcnytnyng yaaygcncar	600
E--> 2586 mgntggyn ayttycargg ngayacnggn aayggnytng cncnnytna yathacnatty	660
E--> 2587 cayytnytn arccnggnca rgcnytnytn gayggnatga arccnytna yggnaarath	720
E--> 2588 acnccntgya aygarwsnca rggngargay wsngcngcnt gywsntgyca rgaytgygc	780
E--> 2589 gcnwsntgyc cngtnathcc nccnccnccn gcnytnmgnnc cnwsnttya yatgggnmgn	840
E--> 2590 atgcccngnt ggytngcnyt nathathath ttyacngcng tnttytngt nytnwsngtn	900
E--> 2591 gtntngtnt ayytnmngnt ngnwsnaay mgnayaara ayaaracngc ngnwsnacn	960
E--> 2592 gargcncna ayytnccnmg naarmgnmgn ttywsnccnc ayacngtnyt ngnmgnatty	1020
E--> 2593 ttygarwsnt ggggnacnmg ngtngcnwsn tgccnytna cngtnytnyng nytnwsntty	1080
E--> 2594 athgtngtnta thgcnytnws ngtnggnyn acnttyathg arytnacnac ngayccngtn	1140
E--> 2595 garytnntggw sngcncnaa rwsncargcn mgnargara argnttyca ygaygarcay	1200
E--> 2596 ttyggncnt tytymgnac naaycarath ttygtacnacn cnaaraaymg nwsnwsntay	1260
E--> 2597 aartaygayw snytnytnyt ngnccnaar aaytyswsng gnathytnws nytnyaytn	1320
E--> 2598 ytnccnccn tnytnaryt ncargarmgn ytnmgnccayy tncargtnyng gwsncaygar	1380
E--> 2599 gcnccnccna ayathwsnyt ncargayath tgytaygcnc cnytnaaycc ncayaaya	1440
E--> 2600 wsnytnaeng aytygtgygt naaywsnyt ytnccnccn tycaraayaa ycayacnyt	1500
E--> 2601 ytnytnytna cngcnaayca racnytnaay gncaracnwsn snytnytna ytgaaargay	1560
E--> 2602 caytccnytnt aytygtgnca ygnccnytn acntayaarg ayggnaacngc nytnytn	1620
E--> 2603 wsntgyathg cngaytaygg ngnccngtn ttyccnccn tngcngtngg ngnntaycar	1680
E--> 2604 ggnacnayt aywsngargc ngargcnytn athathacn tywsnathaa yaaytayccn	1740
E--> 2605 gcnccnccna armgnsntt ynttggarg argnttyyt naargaratg	1800
E--> 2606 carwsntt armgnsntt ytnccnccna artnacnacnath cargayytn cngtnytn ytnccnccn	1860
E--> 2607 ytnccnccna artnacnacnath cargayytn cngtnytn ytnccnccn artnacnacnath	1920
E--> 2608 ytnccnccna artnacnacnath cargayytn cngtnytn ytnccnccn artnacnacnath	1980
E--> 2609 gcnccnccna artnacnacnath cargayytn cngtnytn ytnccnccn artnacnacnath	2040
E--> 2610 gtnccnccna tggntt ytnccnccn artnacnacnath cargayytn cngtnytn ytnccnccn	2100
E--> 2611 gtnccnccn tyytngtnt ytnccnccn artnacnacnath cargayytn cngtnytn ytnccnccn	2160
E--> 2612 taycarnmgn tncnmgnt ytnccnccn artnacnacnath cargayytn cngtnytn ytnccnccn	2220
E--> 2613 ggnwsngtng cncnccn artnacnacnath cargayytn cngtnytn ytnccnccn artnacnacnath	2280
E--> 2614 ggnwsngtng cncnccn artnacnacnath cargayytn cngtnytn ytnccnccn artnacnacnath	2340
E--> 2615 athtgyayt tyytngtnt ytnccnccn artnacnacnath cargayytn cngtnytn ytnccnccn artnacnacnath	2400
E--> 2616 mgncargarg cnwsnmgncn ngaytngtnt ytnccnccn artnacnacnath cargayytn cngtnytn ytnccnccn artnacnacnath	2460
E--> 2617 ccnaarcara argarggnayt nytnytnyng tyytngtnt ytnccnccn artnacnacnath	2520
E--> 2618 ytnccnccn artnacnacnath tyytngtnt ytnccnccn artnacnacnath cargayytn cngtnytn ytnccnccn artnacnacnath	2580
E--> 2619 ytnccnccn artnacnacnath tyytngtnt ytnccnccn artnacnacnath cargayytn cngtnytn ytnccnccn artnacnacnath	2640
E--> 2620 wsntayytna thgataytt ytnccnccn artnacnacnath cargayytn cngtnytn ytnccnccn artnacnacnath	2700

*Same
type
of
errors*

*as
Seq 10*

*n/s
need to
be
explained*

*L2207-L2237
section*

slip 4

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/646,301

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Input Set : A:\seqlist.txt
Output Set: N:\CRF4\08282003\J646301.raw

E--> 2621	tayttygaya cnacnwsngg ntayaaytty wsna	cngnatgaa ygcnathtgy	2760
E--> 2622	wsnwsngcng gntgygarws nttywsnytn acncaraara	thcartaygc nwsngartty	2820
E--> 2623	ccnaaycarw sntaygtngc nathgcngcn wsnwsntggg	tngaygaytt yathgaytgg	2880
E--> 2624	ytnacnccnw snwsnwsntg ytgygnath tayacnmngn	gnccncayaa rgaygartty	2940
E--> 2625	tgyccnwsna cngayacnws nttyaaytgy ytnaaraayt	gyatgaaymg nacnytnggn	3000
E--> 2626	ccngtnmgnc cnacnacnga rcarttycay aartayytnc	cntggattyt naaygayaacn	3060
E--> 2627	ccnaayathm gntgyccnaa rggngnytn gcn	gnacnwsngt naayytnwsn	3120
E--> 2628	nwsncartty atggcnyt ayaarcnyt nmgnaywsn	3180	
E--> 2629	cargaytta cngargcnyt nmngngcnwsn mgnytntng	cngcnaayat hacngcngar	3240
E--> 2630	ytnmgnaarg tnccnggnac ngayccnaay ttypgargtnt	tyccntayac nathwsnaay	3300
E--> 2631	gtnttytayc arcatayyt nacngtntn ccngarggna	thttypgargtnty	3360
E--> 2632	ttygtncna cnttygtngt ntgytaytn ytnytnnn	tngayathmg nwsnggnath	3420
E--> 2633	ytnaayttny tnwsnathat hatgathytn gtngayacna	thgnytnat ggcn	3480
E--> 2634	gnathwsnt ayaaygcngt nwsnytnath aayytn	ngtwsngt	3540
E--> 2635	gartygtnw sncayathac nmgnwsntt gcn	gnwnwsna cnaarcnac nmgnytn	3600
E--> 2636	mgngcnaarg aygcna	natgacn	3660
E--> 2637	aayttyccng gnathytnat hytngnyt	gcn	3720
E--> 2638	tymgnynatn ayytntn	arytnathca rathtt	3780
E--> 2639	gtngtntnw sntaytngg nccngaygt	gn	3840
E--> 2640	gnacnarg cngcnatggt nwsngarccn wsntgyccnc	artayccntt yccngcngay	3900
E--> 2641	gnacnayacnw sngaytaygt naaytaygn	ttyaayccng arttyathcc ngarathaay	3960
E--> 2642	gn	gnwsnw snwsnytncc naarwsgay caraartty	3999

Same errors

VARIABLE LOCATION SUMMARY
PATENT APPLICATION: US/10/646,301

DATE: 08/28/2003
 TIME: 14:39:04

Errr lplan. Input Set : A:\seqlist.txt
 Output Set: N:\CRF4\08282003\J646301.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:10; N Pos. 6,9,12,18,21,27,30,36,39,42,45,48,51,54,60,66,72,75,87,90
 Seq#:10; N Pos. 93,99,117,126,132,135,138,141,144,147,150,153,156,162,165
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 Seq#:10; N Pos. 783,786,792,795,801,804,807,813,816,819,822,825,837,840,846
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 Seq#:10; N Pos. 912,915,918,921,924,927,933,948,954,957,966,969,975,978,993
 Seq#:10; N Pos. 996,999,1005,1011,1014,1017,1035,1038,1041,1044,1047,1050
 Seq#:10; N Pos. 1056,1059,1062,1065,1068,1071,1074,1077,1086,1089,1095,1098
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 Seq#:10; N Pos. 1302,1308,1311,1314,1323,1326,1332,1335,1341,1350,1353,1356
 Seq#:10; N Pos. 1362,1368,1374,1377,1383,1389,1398,1401,1419,1422,1425,1431
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 Seq#:10; N Pos. 2397,2403,2412,2415,2418,2421,2427,2430,2442,2445,2448,2454
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 Seq#:10; N Pos. 2577,2583,2589,2607,2610,2613,2625,2628,2631,2634,2643,2649
 Seq#:10; N Pos. 2664,2670,2676,2682,2688,2691,2694,2697,2700,2709,2712,2715
 Seq#:10; N Pos. 2718,2721,2733,2736,2742,2745,2754,2757,2763,2766,2769,2772
 Seq#:10; N Pos. 2781,2787,2790,2793,2811,2814,2823,2832,2838,2841,2847,2850

VARIABLE LOCATION SUMMARY
PATENT APPLICATION: US/10/646,301

DATE: 08/28/2003
TIME: 14:39:04

Input Set : A:\seqlist.txt
Output Set: N:\CRF4\08282003\J646301.raw

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VERIFICATION SUMMARY
PATENT APPLICATION: US/10/646,301

DATE: 08/28/2003
TIME: 14:39:04

Input Set : A:\seqlist.txt
Output Set: N:\CRF4\08282003\J646301.raw

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L:24 M:283 W: Missing Blank Line separator, <160> field identifier
L:39 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:36
L:739 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:736
L:1801 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:10
M:340 Repeated in SeqNo=10
L:1881 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11,Line#:1878
L:2576 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:13
M:340 Repeated in SeqNo=13
L:3022 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:43,Line#:3019